

# An Evaluation of the Quality and Utility of ACS Five Year Estimates for Bronx Census Tracts and Neighborhoods



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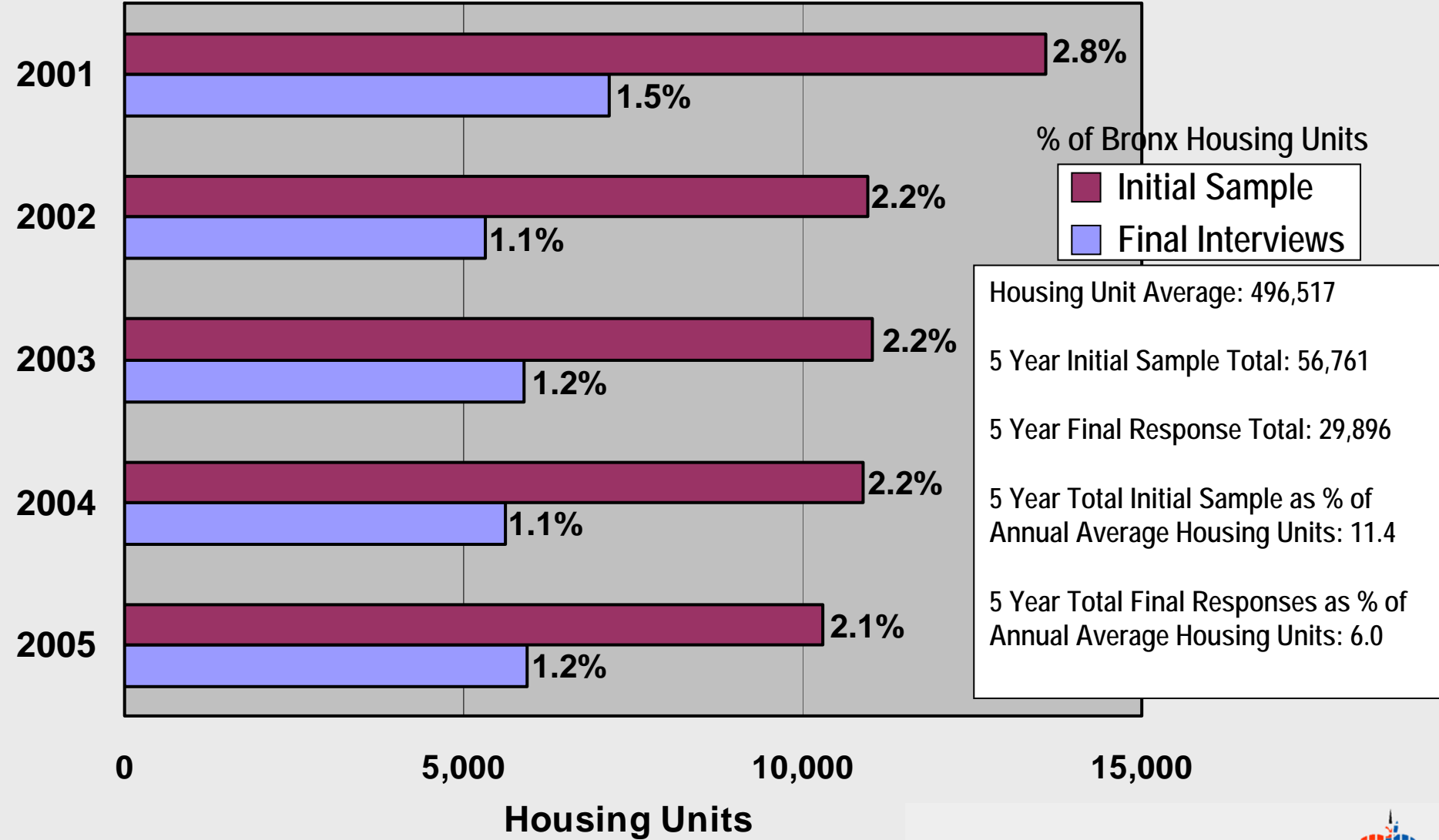
Population Division  
NYC Department of City Planning



# *Reliability of ACS Estimates: An Examination of Sampling Variability*



# ACS Initial Sample and Final Response as a Percent of all Bronx Housing Units, 2001-2005



Population and Housing Unit Attributes  
of Bronx Census Tracts, 2001-2005 ACS

	<b><u>Census Tracts</u></b>
<b>Number of Areas</b>	<b>330</b>

**Household Population**

<b>Median</b>	<b>3,356</b>
<b>Range</b>	<b>227 to 24,829</b>
<b>Median Coefficient of Variation</b>	<b>8.2</b>

**Housing Units**

<b>Median</b>	<b>1,304</b>
<b>Range</b>	<b>115 to 11,621</b>
<b>Median Coefficient of Variation</b>	<b>2.6</b>



# 43 Demographic, Social, Economic, and Housing Variables Bronx Census Tracts and Neighborhoods, 2001-2005 ACS

## Demographic & Social

- 1) Children 0 to 4 years of age
- 2) Nonrelatives
- 3) Married couple families
- 4) Nonfamily households
- 5) High school graduate only
- 6) Bachelor's degree
- 7) Never married
- 8) Divorced females
- 9) Civilian veterans
- 10) Foreign-born
- 11) Naturalized U.S. citizen
- 12) Speaks lang. other than Eng.
- 13) Speaks Eng. less than "very well"
- 14) Speaks Spanish at home

## Economic

- 1) Persons employed
- 2) Females employed
- 3) Use public transp.
- 4) Mgmt., prof. & related occp.
- 5) Construction occp.
- 6) Retail industry
- 7) Education industry
- Class of workers:
- 8) Government
- 9) Self-employed
- Households:
- 10) w/ inc. & benefits < \$10,000
- 11) w/ earnings
- 12) w/ Social Security
- 13) w/ cash public assist. inc.

## Housing

Housing units in:

- 1) Struct. w/ 20+ units
- 2) Struct. blt.1990 or later
- 3) Struct. blt.1980-89
- 4) Struct. blt.1970-79
- 5) Struct. blt. before 1940
- 6) Rooms in unit = 1
- 7) Rooms in unit = 5
- 8) Vehicles available = 0
- 9) Vehicles available = 1

Heating fuel:

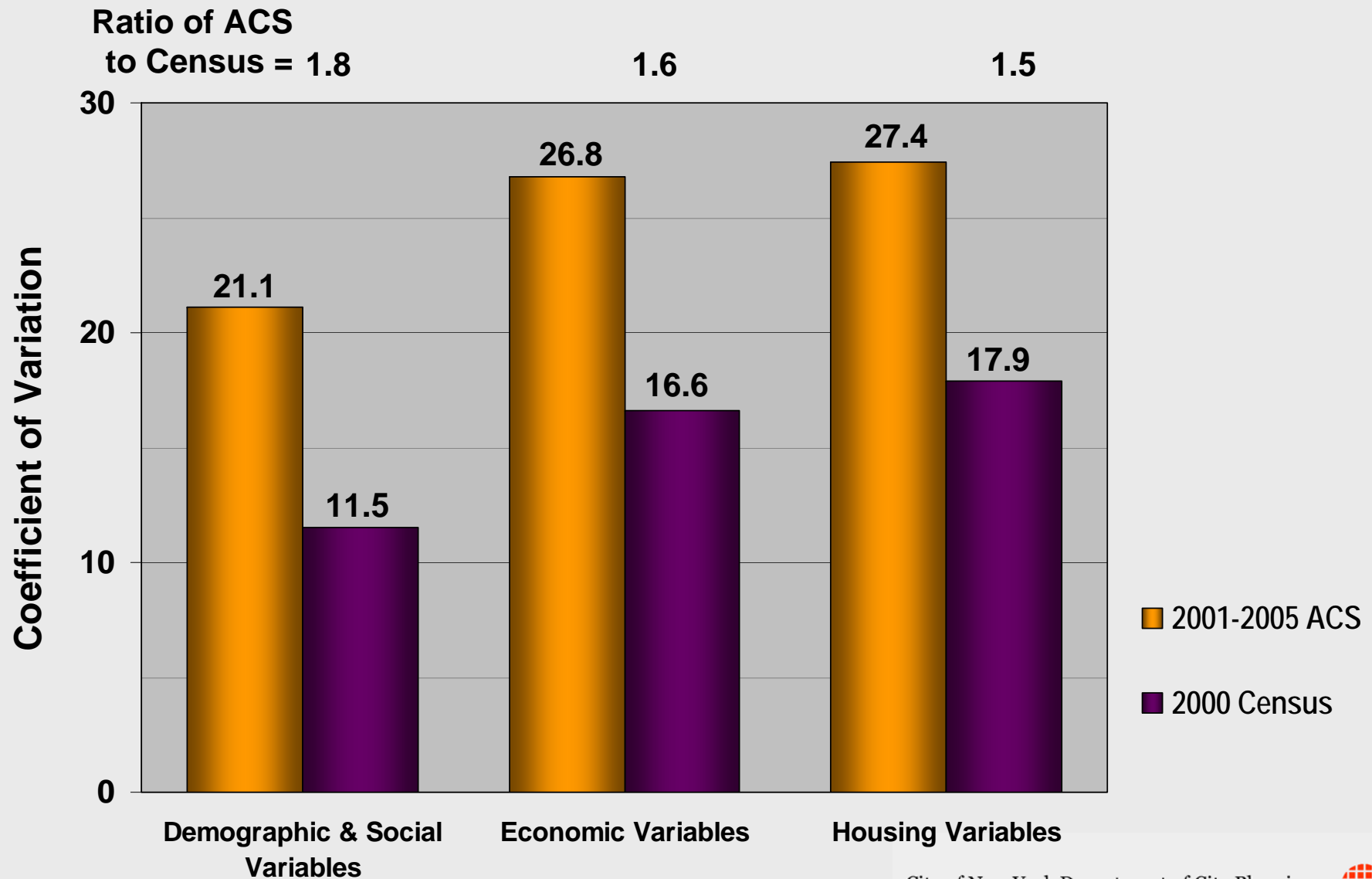
- 10) Utility gas
- 11) Electric
- 12) Oil, etc.
- 13) No telephone service
- 14) 1.5+ occupants per room

Gross rent as % of HH inc.:

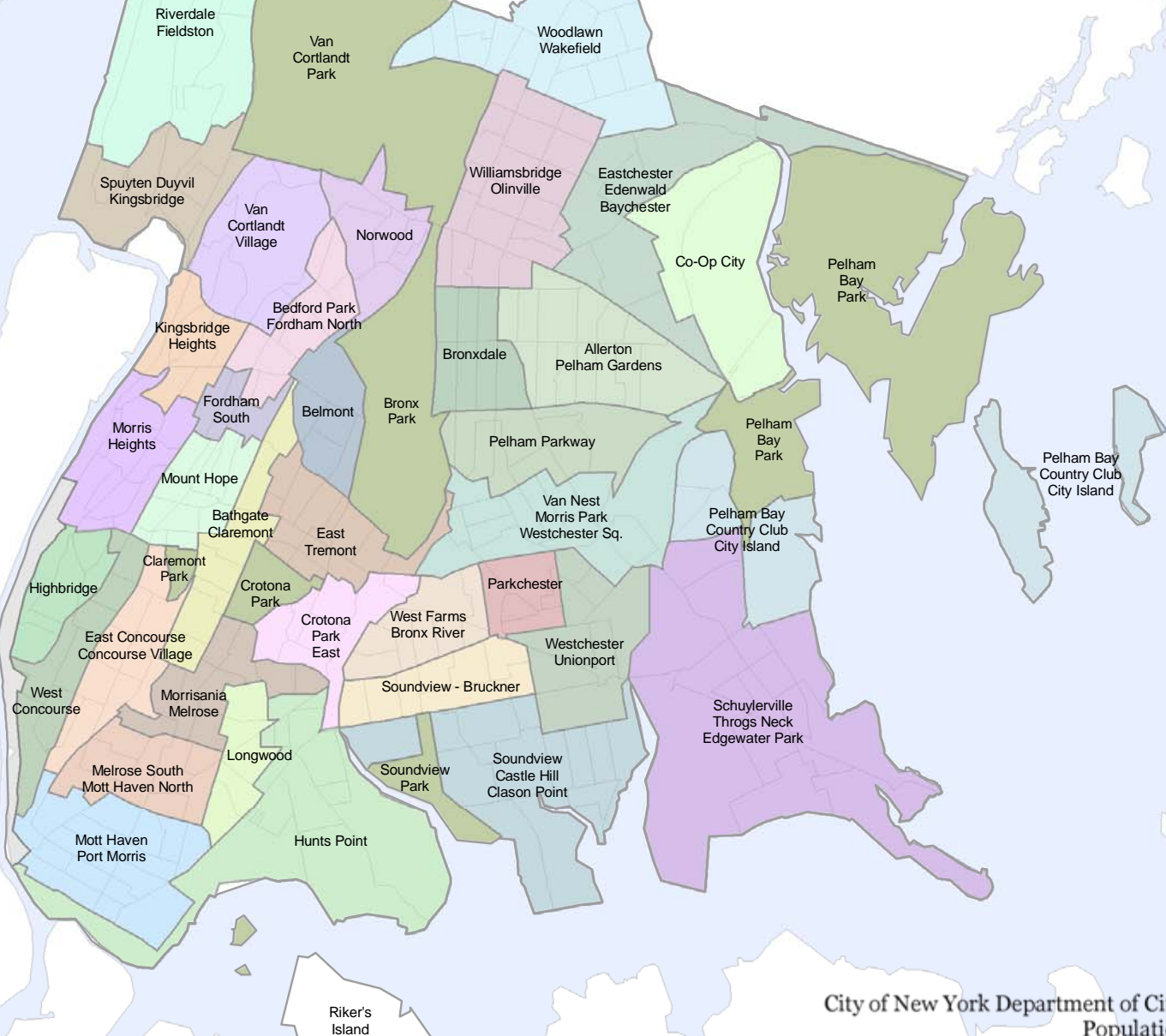
- 15) less than 15%
- 16) 35% or more



# Median Overall Coefficients of Variation for Bronx Census Tracts, 2000 Census and 2001-2005 ACS



# Neighborhood Aggregates of Bronx Census Tracts



# Population and Housing Unit Attributes of Bronx Census Tracts and Neighborhoods, 2001-2005 ACS

	<u>Census Tracts</u>	<u>Neighborhoods</u>
<b>Number of Areas</b>	<b>330</b>	<b>36</b>

## Household Population

<b>Median</b>	<b>3,356</b>	<b>34,256</b>
<b>Range</b>	<b>227 to 24,829</b>	<b>17,934 to 59,033</b>
<b>Median Coefficient of Variation</b>	<b>8.2</b>	<b>2.7</b>

## Housing Units

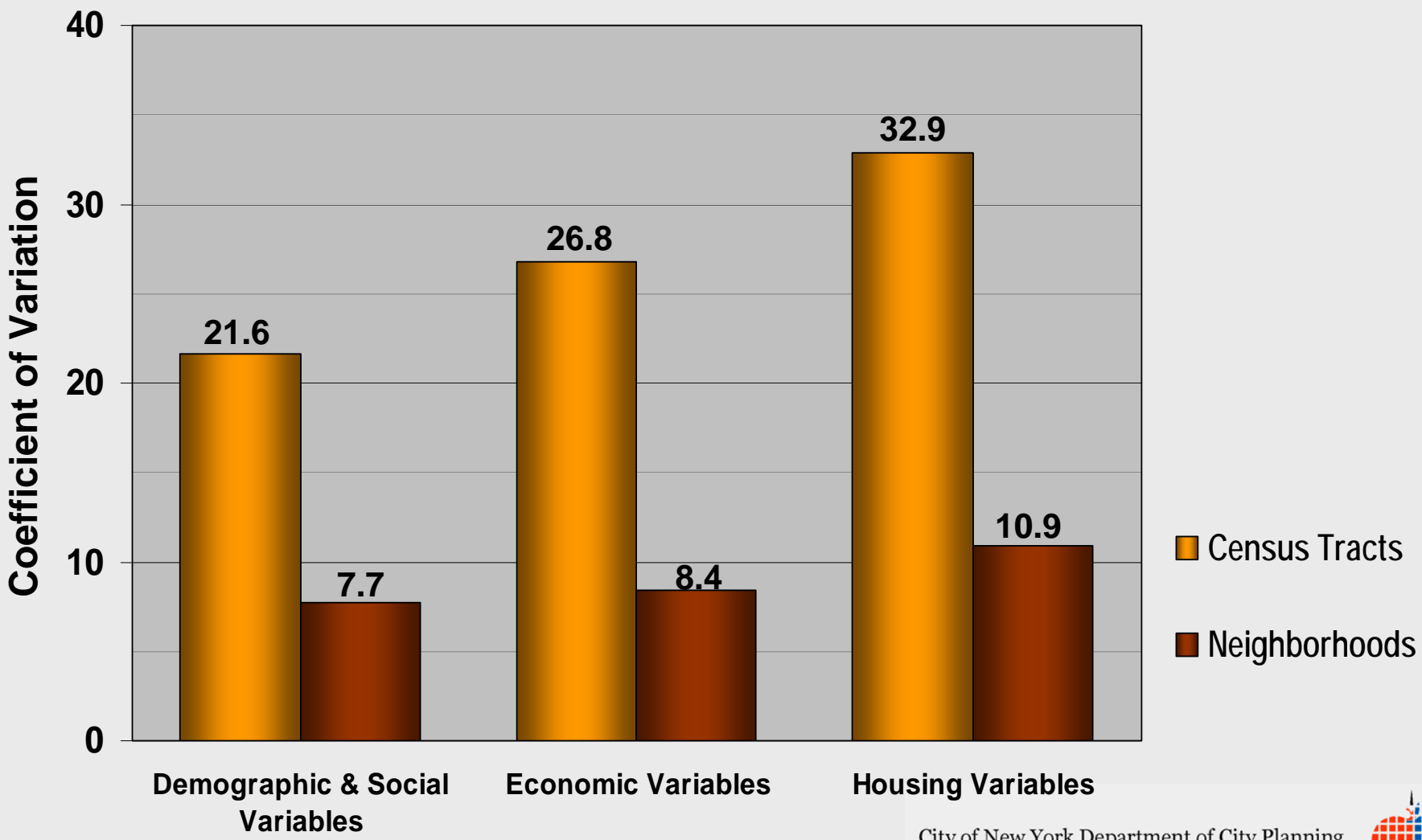
<b>Median</b>	<b>1,304</b>	<b>12,916</b>
<b>Range</b>	<b>115 to 11,621</b>	<b>7,059 to 21,838</b>
<b>Median Coefficient of Variation</b>	<b>2.6</b>	<b>1.0</b>





# Median Overall Coefficients of Variation for Bronx Census Tracts and Neighborhoods, 2001-2005 ACS

Ratio of Neighborhoods to Tracts =                      0.36                      0.31                      0.33

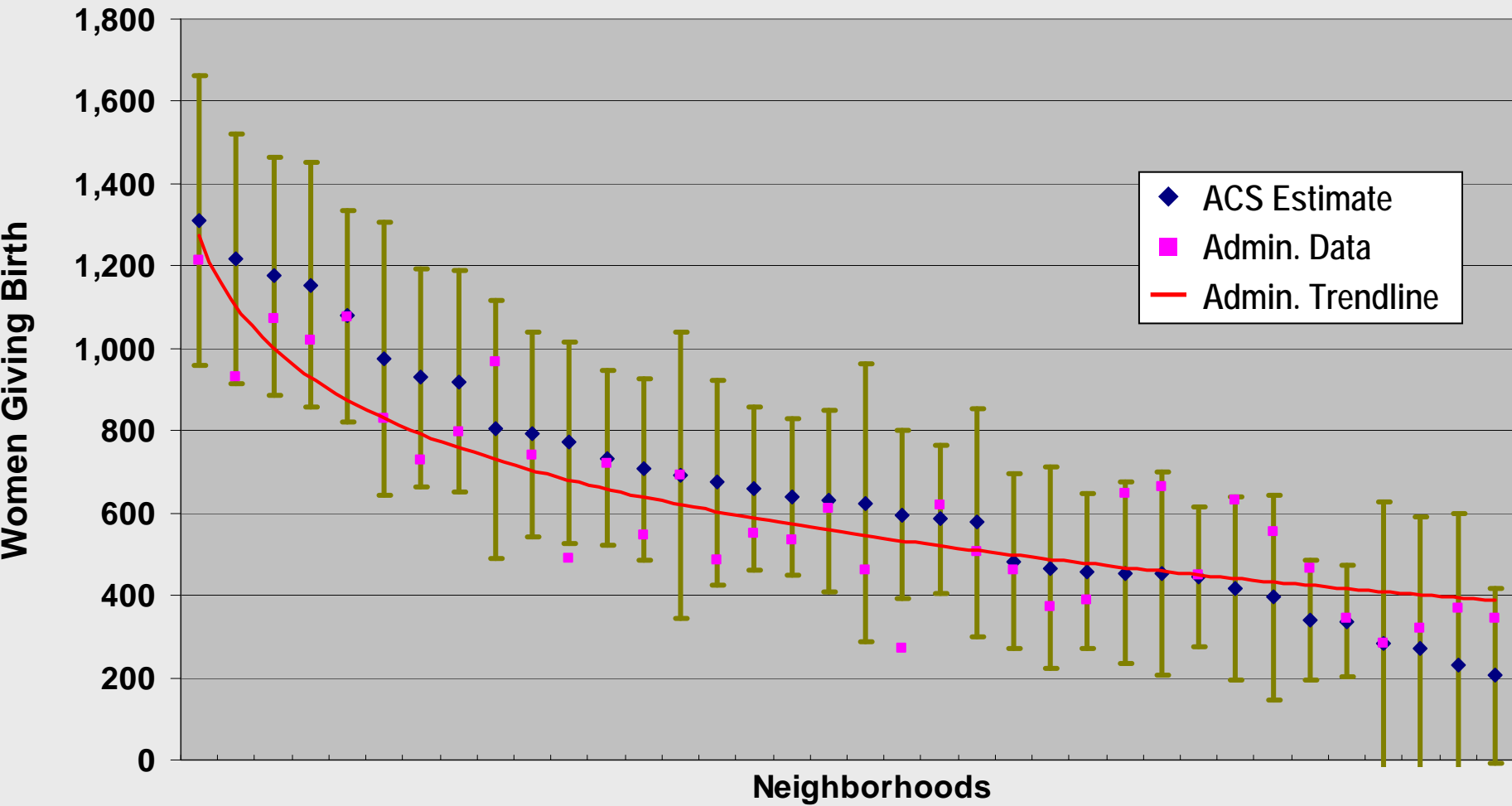




# *Validity of ACS Estimates: ACS vs. Administrative Data*

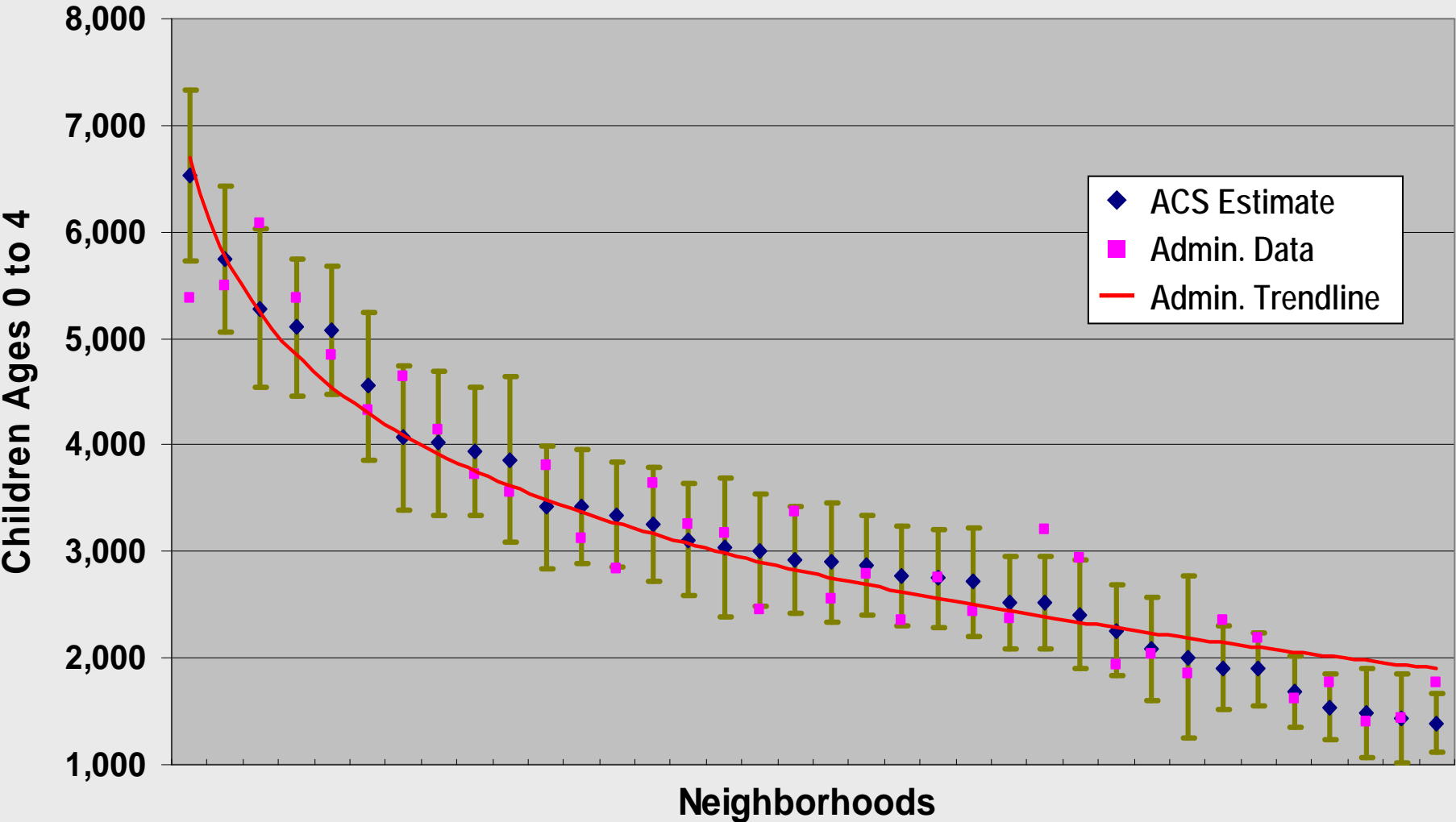


# Bronx Women Giving Birth in Prior 12 Months by Neighborhood, 2001-2005 ACS and Administrative Data



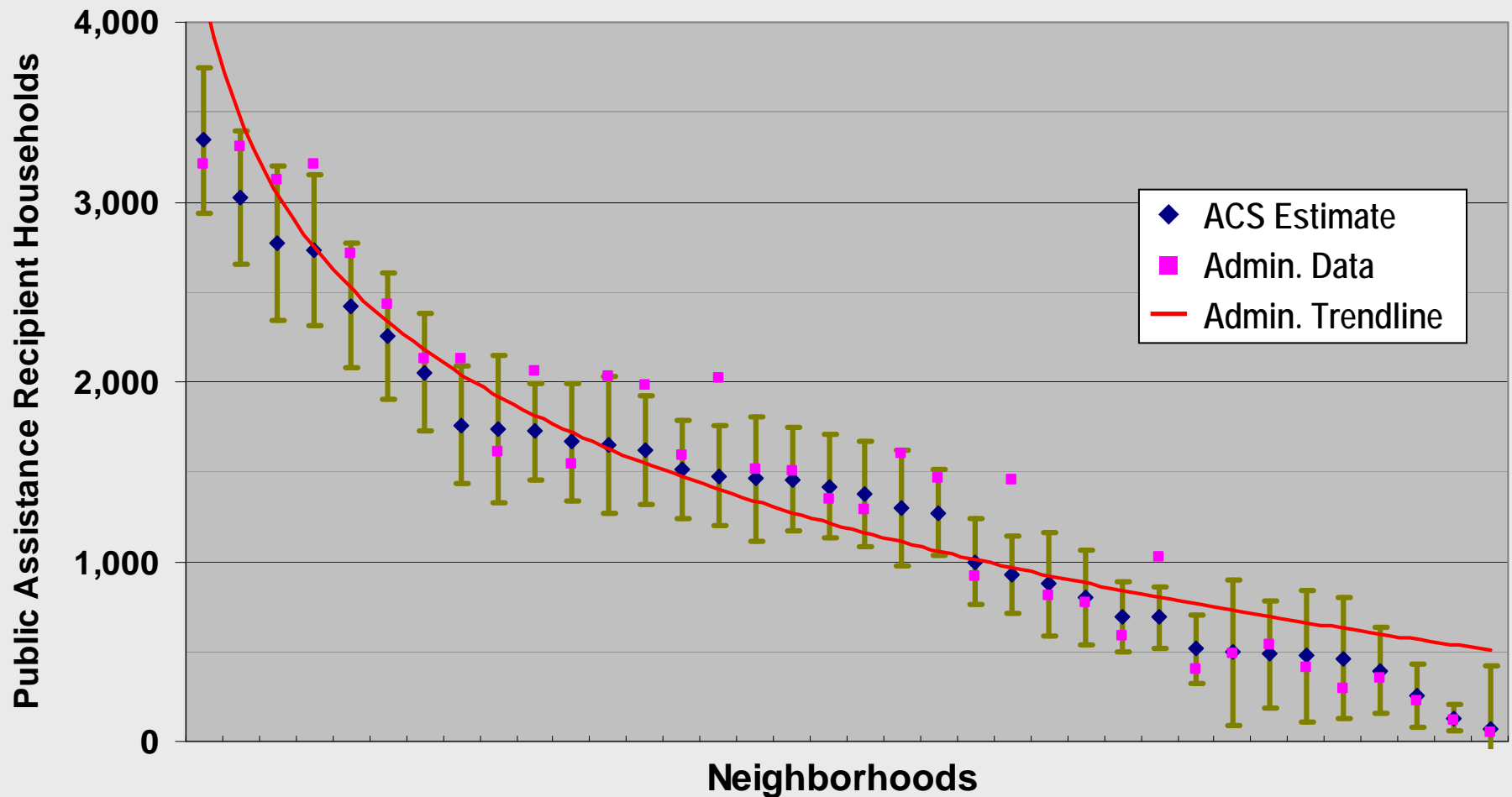
Median absolute difference = 116  
Median absolute % difference from administrative data = 18.0  
% Neighborhoods that show significant differences = 5.6

# Bronx Children Ages 0 to 4 by Neighborhood, 2001-2005 ACS and Administrative Data



Median absolute difference = 285  
Median absolute % difference from administrative data = 9.8  
% Neighborhoods that show significant differences = 22.2

# Bronx Households Receiving Public Assistance Income by Neighborhood, 2001-2005 ACS and Administrative Data



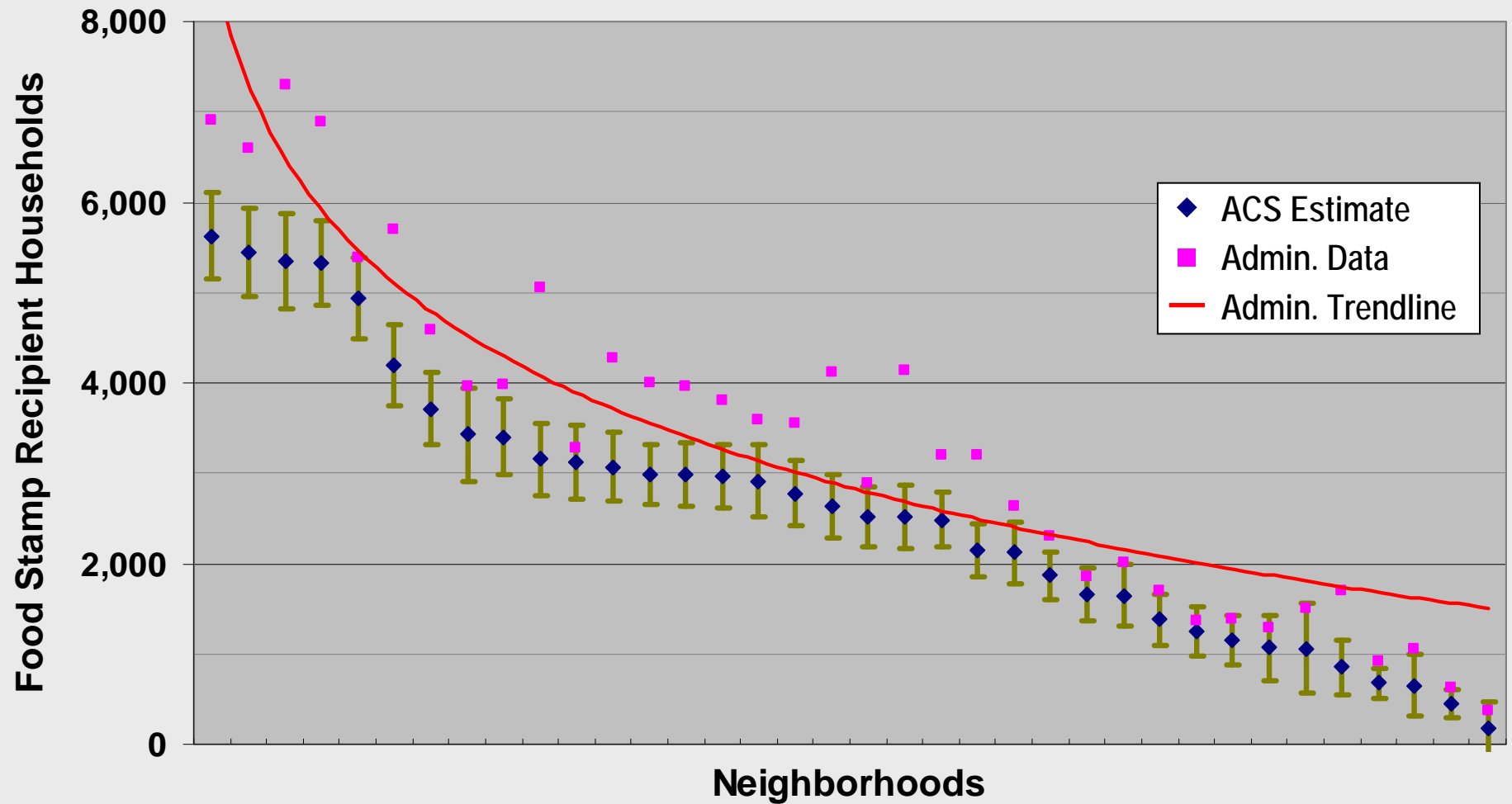
Median absolute difference = 117

Median absolute % difference from administrative data = 11.0

% Neighborhoods that show significant differences = 22.2



# Bronx Households Receiving Food Stamps by Neighborhood, 2001-2005 ACS and Administrative Data



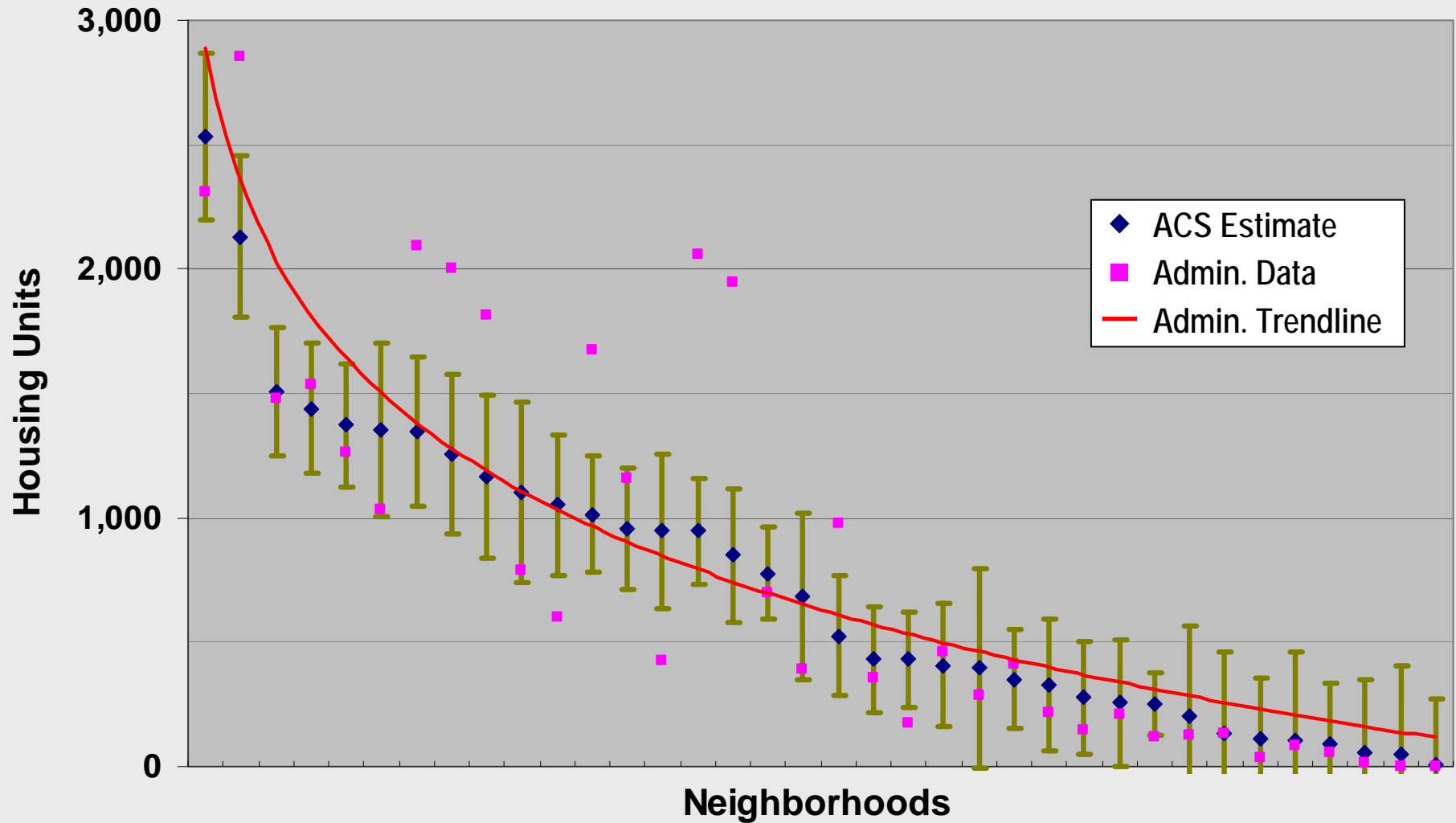
Median absolute difference = 630

Median absolute % difference from administrative data = 21.8

% Neighborhoods that show significant differences = 80.6



# Bronx Housing Units in Structures Built 1990 or Later by Neighborhood, 2001-2005 ACS and Administrative Data



Median absolute difference = 120

Median absolute % difference from administrative data = 37.5

% Neighborhoods that show significant differences = 33.3





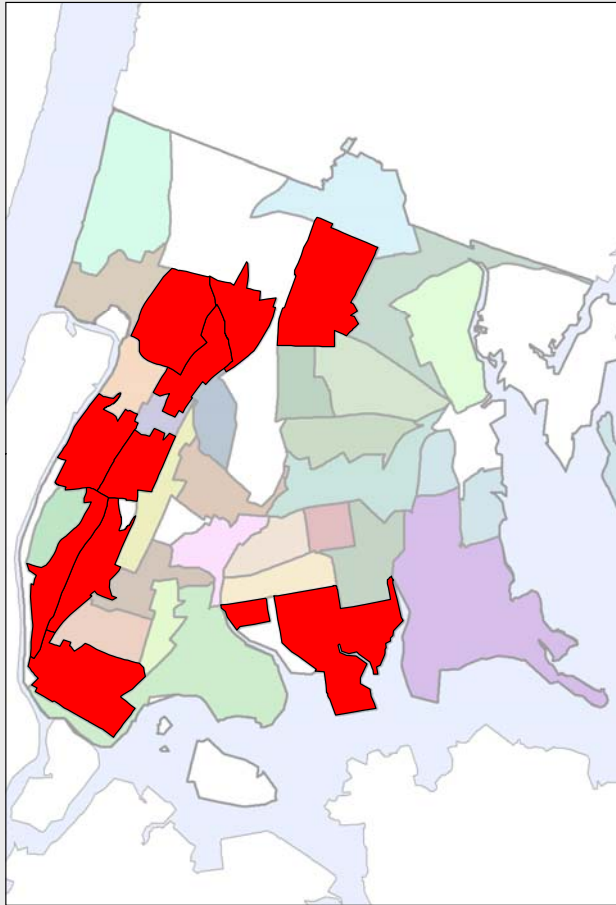
# *Utility of ACS Estimates: Targeting and Outreach Applications*



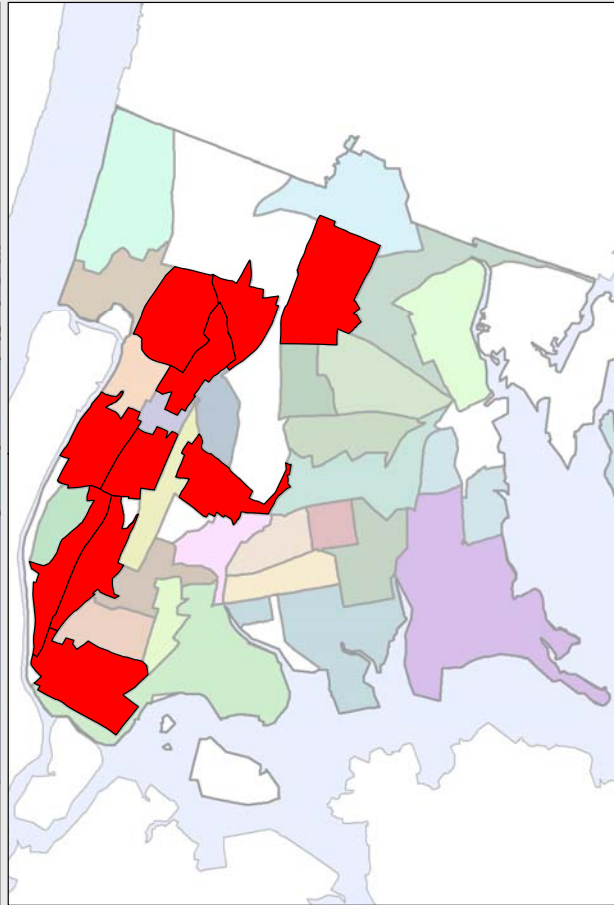


# Top Ten Bronx Neighborhoods for Children Ages 0 to 4, 2000 Census and 2001-2005 Administrative and ACS Data

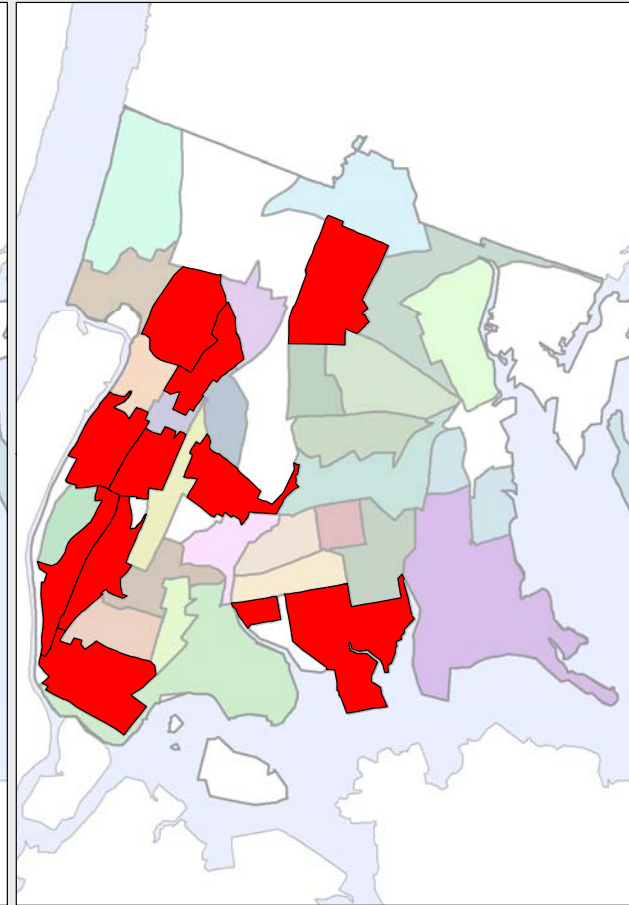
2000 Census



2001-2005 Administrative Data



2001-2005 ACS

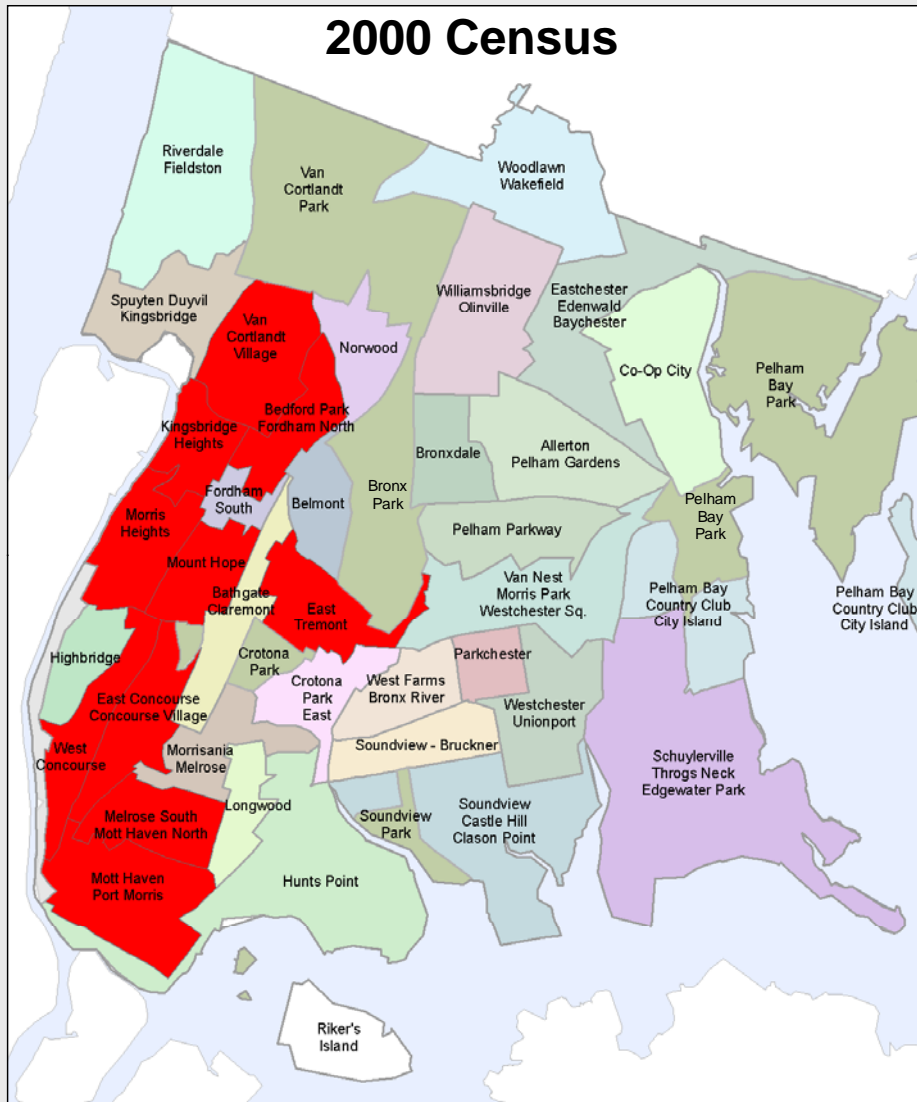


 Top 10 Neighborhoods

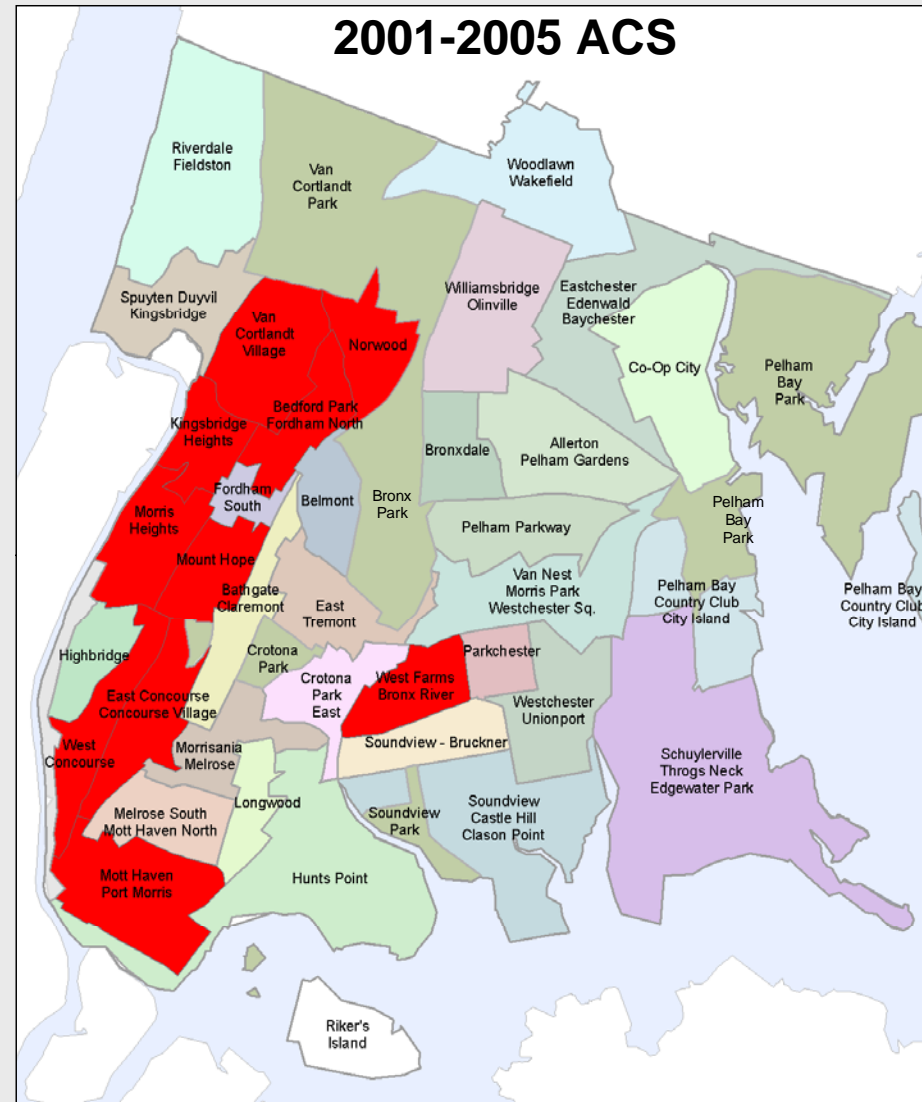


# Top Ten Bronx Neighborhoods for Persons 5 and Over with Limited English Proficiency, 2000 Census & 2001-2005 ACS Data

## 2000 Census



## 2001-2005 ACS



### Top 10 Neighborhoods

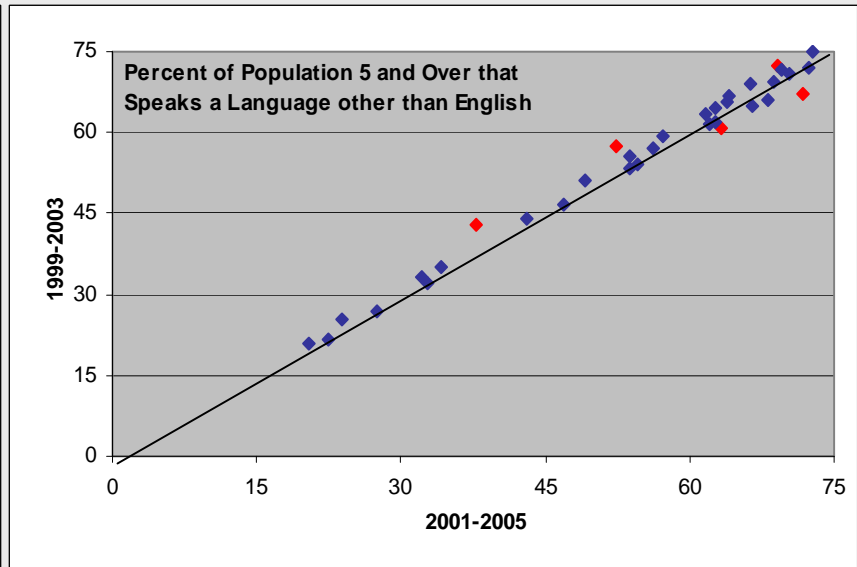
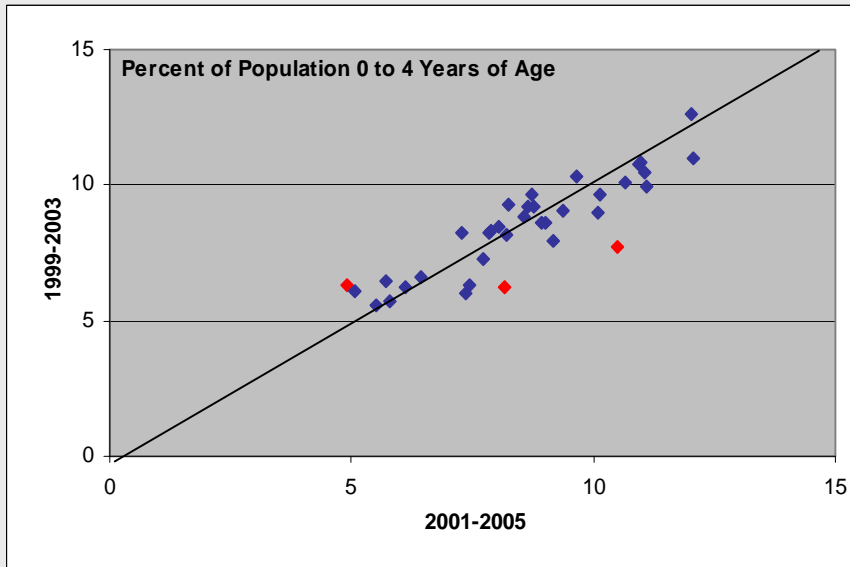
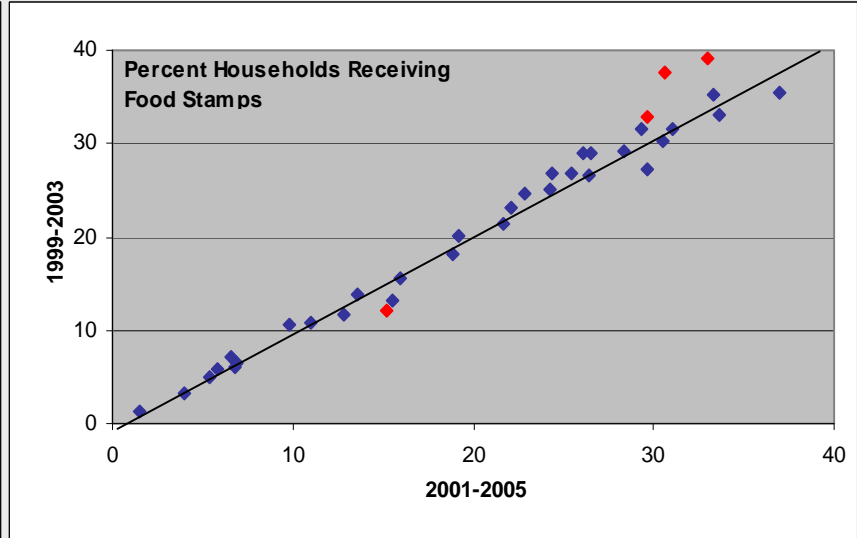
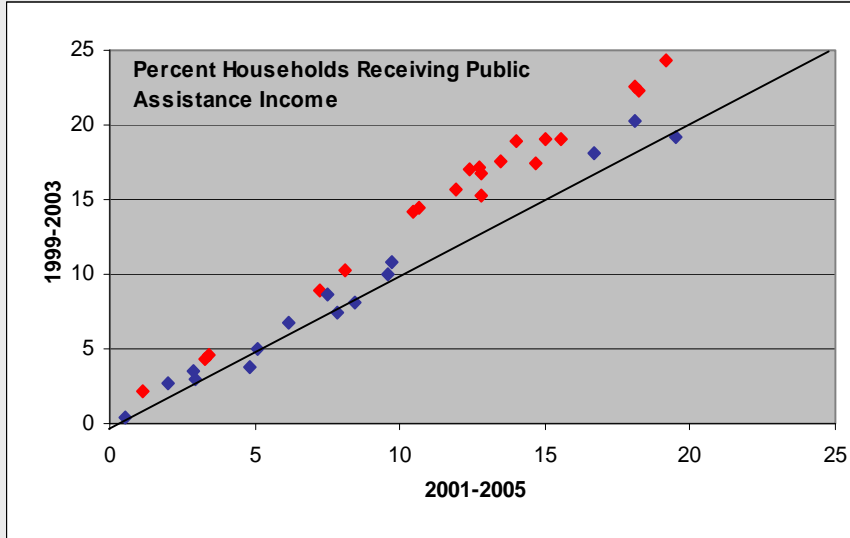




# *Measuring Change Over Time: ACS Data with 3 Years of Overlap*



# A Comparison of Selected ACS Estimates for Bronx Neighborhoods, 1999-2003 & 2001-2005 (3 Years of Overlap)



◆ Difference significant at the .10 level

